

California Weather-Hydro Conditions during September 2017

As of September 30, 2017, the end of Water Year 2017, statewide hydrologic conditions were as follows: precipitation, 165 percent of average to date; runoff, 215 percent of average to date; and reservoir storage, 120 percent of average to date.

Sacramento River Region unimpaired runoff, for Water Year 2017, observed through September 30, 2017 was about 37.9 million acre-feet (MAF), which is about 212 percent of average. In comparison to Water Year 2016, the observed Sacramento River Region unimpaired runoff through September 30, 2016 was about 17.5 MAF, or about 98 percent of average. San Joaquin River Region unimpaired runoff, for Water Year 2017, observed through September 30, 2017 was about 18.0 MAF, which is about 258 percent of average. In comparison to Water Year 2016, the observed San Joaquin River Region unimpaired runoff through September 30, 2016 was about 6.1 MAF, or about 87 percent of average. Tulare Lake Region unimpaired runoff, for Water Year 2017, observed through September 30, 2017 was about 7.3 MAF, which is about 238 percent of average. In comparison to Water Year 2016, the observed Tulare Lake Region unimpaired runoff through September 30, 2016 was about 2.0 MAF, or about 65 percent of average.

On September 30, 2017, the Northern Sierra 8-Station Precipitation Index Water Year total was 94.7 inches, which is about 189 percent of the seasonal average to date and 189 percent of an average water year (50.0 inches). During September, the total precipitation for the 8-Stations was 0.4 inches, or about 44 percent of average for the month. Last year on September 30, 2016, the Water Year 2016 seasonal total for the 8-Stations was 57.9 inches, or about 116 percent of average.

On September 30, 2017, the San Joaquin 5-Station Precipitation Index Water Year total was 72.7 inches, which is about 178 percent of the seasonal average to date and 178 percent of an average water year (40.7 inches). During September, the total precipitation for the 5-Stations was 0.9 inches, or about 128 percent of average for the month. Last year on September 30, 2016, the Water Year 2016 seasonal total for the 5-Stations was 40.0 inches, or about 98 percent of average.

On September 30, 2017, the Tulare Basin 6-Station Precipitation Index Water Year total was 46.9 inches, which is about 160 percent of the seasonal average to date and 160 percent of an average water year (29.2 inches). During September, the total precipitation for the 6-Stations was 0.5 inches, or about 83 percent of average for the month. Last year on September 30, 2016, the Water Year 2016 seasonal total for the 6-Stations was 25.8 inches, or about 88 percent of average.

Daily Precipitation (in inches) for Selected Stations as of 09/30/2017 (minor differences are due to rounding)					
Station	Water Year 2017 to Sep 30 2017	% Average	Water Year 2016 to Sep 30, 2016	% Average	WY 2017 % of Avg Water Year (Oct 1 – Sep 30)
Mount Shasta	59.77	137	40.97	94	137
Eureka	52.45	130	44.02	109	130
Redding	46.25	134	37.30	108	134
South Lake Tahoe	48.37	238	22.22	109	237
Sacramento Executive Airport	32.97	178	16.14	87	178
Santa Rosa (Sonoma Co AP)	58.24	161	30.43	84	161
San Francisco	32.17	136	22.16	94	136
Stockton	21.63	154	16.60	118	154
Yosemite	75.64	200	36.10	95	199
Monterey	24.23	150	21.54	134	150
Paso Robles	14.22	111	7.37	58	111
Fresno	17.40	151	14.33	125	151
Bakersfield	8.32	129	5.44	84	129
Death Valley	1.60	68	1.68	71	68
Los Angeles	17.76	119	6.35	43	119
Riverside	12.25	99	5.17	42	99
Palm Springs	8.95	156	3.41	59	156
San Diego	12.34	119	8.05	78	119

Key Reservoir Storage (1,000 AF) as of 09/30/2017								
Reservoir	River	Storage	Avg Storage	% Average	Capacity	% Capacity	Flood Control Encroachment	Total Space Available
Trinity Lake	Trinity	1,791	1,666	107	2,448	73	---	657
Shasta Lake	Sacramento	3,382	2,725	124	4,552	74	-1,170	1,170
Lake Oroville	Feather	1,332	2,188	61	3,538	38	-2,019	2,206
New Bullards Bar Res	Yuba	691	593	117	966	72	-219	275
Folsom Lake	American	664	554	120	977	68	-313	313
New Melones Res	Stanislaus	2,024	1,343	151	2,400	84	-249	396
Don Pedro Res	Tuolumne	1,699	1,371	124	2,030	84	-73	331
Lake McClure	Merced	768	464	166	1,025	75	-85	257
Millerton Lake	San Joaquin	365	210	173	520	70	-156	155
Pine Flat Res	Kings	591	338	175	1,000	59	-409	409
Isabella	Kern	212	187	113	568	37	-92	356
San Luis Res	(Offstream)	1,752	955	183	2,041	86	---	287

The latest National Weather Service Climate Prediction Center (CPC) long-range, 1-month precipitation outlook for November 2017, issued October 19, 2017, suggests average precipitation for all of California.